

AMENDMENTS TO THE CLAIMS:

This listing of claims replaces all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1 to 15 (Cancelled)

16. (Currently Amended) A method for receiving signals transmitted in subfrequency bands of a receive frequency band of a cellular mobile communication system, the method comprising:

~~performing pre-filtering to obtain~~ obtaining a first signal frequency band containing the signals by adding a carrier frequency to the receive frequency band and by pre-filtering the receive frequency band;

generating a frequency baseband containing the signals by adding an intermediate frequency to the first signal frequency band and by demodulating the first signal frequency band; ~~and~~

performing post-filtering on the frequency baseband to obtain a second signal frequency band containing the signals, wherein post-filtering comprises matching ~~from the frequency baseband by matching~~ one or more of the carrier frequency and the intermediate frequency to at least one filter parameter;

digitizing information in the second frequency band; ~~and~~

fine-filtering the digitized information to obtain the signals in digital form; and

amplifying the signals of the second signal frequency band or bypassing amplifying the signals of the second signal frequency based on a post-filter output level of the signals.

17. (Previously Presented) The method of claim 16, further comprising:

post-filtering the frequency baseband using one or more of a low-pass filter, a high-pass filter, and a high-pass/low-pass filter combination, the post-filtering having a cut-off frequency that is matched to one or more of the carrier frequency and the intermediate frequency.

18. (Currently Amended) The method of claim 16, wherein amplifying comprises ~~further comprising:~~ amplifying the second signal frequency band after post-filtering has been at least partially performed.

19. (Previously Presented) The method of claim 16, further comprising:

setting the carrier frequency to split off a neighboring frequency band of the second subfrequency band during prefiltering.

20. (Currently Amended) The method of claim 16, further comprising:

digitizing the first signal frequency band wherein the frequency baseband is generated ~~via~~ through digital demodulation.

21. (Previously Presented) The method of claim 16, further comprising:

performing one of a high-pass filtering and a combination of high-pass and low-pass filtering to filter out at least one subfrequency band in a range of the frequency baseband;
digitizing the filtered subfrequency band; and
converting the digitized subfrequency band into a frequency range which contains a zero frequency value.

22. (Currently Amended) A receiver for receiving signals transmitted in subfrequency bands of a receive frequency band of a cellular mobile communication system, comprising:

a first oscillator to insert a carrier frequency into a receive path of the receive frequency band;

a prefilter to filter a first frequency band containing the signals out of the receive frequency band with the carrier frequency;

a second oscillator to insert an intermediate frequency into a first signal path of the first frequency band;

a demodulator to demodulate the first frequency band with the intermediate frequency to generate a frequency baseband containing the signals; ~~and~~

a post-filter to filter a second signal frequency band containing the signals out of the frequency baseband;

a second signal band amplifier to amplify a second frequency band; and

a bypass connected in parallel with the second signal band amplifier for unamplified forwarding of the second frequency band;

wherein the bypass is used based on a post-filter output level of the signals.

23. (Previously Presented) The receiver of claim 22, wherein:

the post-filter includes one of a low-pass filter, a high-pass filter and a high-pass/low-pass filter combination, the post-filter having a cut-off frequency matched to at least one of the carrier frequency and the intermediate frequency to separate the second subfrequency band from neighboring frequency bands in the frequency baseband.

24. (Previously Presented) The receiver of claim 28, wherein:

the second signal band amplifier and at least a part of the post-filter are arranged in a common integrated circuit.

25. (Cancelled)

26. (Previously Presented) The receiver of claim 22, wherein:

the demodulator and at least a part of the post-filter are arranged in a common integrated circuit.

27. (Previously Presented) The receiver of claim 22, further comprising:

an analog/digital converter.

28. (Currently Amended) The receiver of claim 22, wherein the post-filter includes:

- a common frequency and post-filter control to match one of the carrier frequency and the intermediate frequency to at least one filter parameter to provide the second frequency band;
- ~~a second signal band amplifier to amplify the second frequency band;~~
- an analog/digital converter to digitize information in the second frequency band; and
- a digital filter to filter the signals out of the digitized information.